

Map Unit Description (MN)

Lincoln County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

GP--Pits, gravel-Udipsamments complex

Pits, gravel

Extent: 50 to 100 percent of the unit
Landform(s): moraines, outwash plains, stream terraces
Slope gradient: 0 to 50 percent
Parent material: sandy and gravelly outwash
Restrictive feature(s): greater than 60 inches
Flooding:
Ponding:
Drainage class:

Soil loss tolerance (T factor):
Wind erodibility group (WEG):
Wind erodibility index (WEI):
Kw factor (surface layer)
Land capability, nonirrigated
Hydric soil:
Hydrologic group:
Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Udipsamments

Extent: 15 to 30 percent of the unit
Landform(s): moraines, outwash plains, stream terraces
Slope gradient: 0 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding:
Ponding:
Drainage class: excessively drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 2
Wind erodibility index (WEI): 134
Kw factor (surface layer)
Land capability, nonirrigated
Hydric soil:
Hydrologic group: A
Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Lincoln County, Minnesota

J1A--Parnell silty clay loam, depressional, 0 to 1 percent slopes

Parnell, depressional

Extent: 85 to 95 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .37

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 22 in	silty clay loam		moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg --	22 to 55 in	silty clay		slow	4.30 to 5.29 in	6.1 to 7.3
BCg --	55 to 80 in	silty clay loam		slow	3.97 to 4.71 in	6.6 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J2A--La Prairie loam, 0 to 2 percent slopes, occasionally flooded

La Prairie, occasionally flooded

Extent: 80 to 95 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.81 to 1.99 in	6.6 to 8.4
A -- 9 to 38 in	loam	moderate	5.83 to 6.41 in	6.6 to 8.4
Bw -- 38 to 50 in	loam	moderate	2.01 to 2.24 in	6.6 to 8.4
C -- 50 to 60 in	loam	moderate	1.67 to 1.87 in	7.4 to 8.4

J7B--Sverdrup sandy loam, 2 to 6 percent slopes

Sverdrup

Extent: 80 to 90 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 7.3
Bw -- 12 to 26 in	sandy loam	moderately rapid	1.70 to 1.98 in	6.1 to 7.3
2C -- 26 to 80 in	sand	rapid	2.70 to 3.78 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J11A--Vallers clay loam, 0 to 2 percent slopes

Vallers

Extent: 75 to 95 percent of the unit

Landform(s): rims on depressions on till plains, flats on till plains, drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	clay loam	moderate	2.41 to 2.69 in	7.4 to 8.4
Bkg -- 14 to 38 in	loam	moderate	3.60 to 4.56 in	7.4 to 8.4
Cg -- 38 to 80 in	loam	moderately slow	6.26 to 7.93 in	7.4 to 8.4

J17A--Quam silty clay loam, depressional, 0 to 1 percent slopes

Quam, depressional

Extent: 85 to 95 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderately slow	1.77 to 2.17 in	6.6 to 7.3
A1,A2 -- 10 to 45 in	silty clay loam	moderately slow	5.61 to 6.66 in	6.6 to 7.3
Cg -- 45 to 80 in	silty clay loam	moderately slow	5.61 to 6.66 in	6.6 to 7.8

Map Unit Description (MN)

Lincoln County, Minnesota

J22A--Renshaw loam, 0 to 3 percent slopes

Renshaw

Extent: 75 to 95 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 3 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw --	7 to 15 in	loam		moderately rapid	1.34 to 1.50 in	6.6 to 7.3
2Bk --	15 to 20 in	gravelly loamy sand		very rapid	0.26 to 0.36 in	7.4 to 8.4
2C --	20 to 60 in	gravelly loamy sand		very rapid	1.59 to 2.39 in	7.4 to 8.4

J23A--Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded

Lamoure, occasionally flooded

Extent: 75 to 95 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:			Texture	Permeability	Available water capacity	pH
A1,A2 --	0 to 27 in	silty clay loam		moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 --	27 to 34 in	silty clay loam		moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 --	34 to 60 in	silt loam		moderate	5.20 to 5.72 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J25A--Rauville silty clay loam, 0 to 1 percent slopes, frequently flooded

Rauville, frequently flooded

Extent: 80 to 95 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 1 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 6w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 27 in	silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg -- 27 to 45 in	silty clay loam	moderate	2.83 to 3.37 in	7.4 to 8.4
2Cg -- 45 to 60 in	stratified gravelly sand to clay loam	moderately rapid	1.20 to 2.24 in	7.4 to 8.4

J26B--Darnen loam, 2 to 6 percent slopes

Darnen

Extent: 85 to 95 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	loam	moderate	4.80 to 5.28 in	6.6 to 7.3
AB,Bw1 -- 24 to 34 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw2 -- 34 to 80 in	loam	moderate	7.83 to 8.75 in	6.6 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J31B--Arvilla-Sandberg complex, 2 to 6 percent slopes

Arvilla

Extent: 35 to 55 percent of the unit
Landform(s): hills on outwash plains
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .20
Land capability, nonirrigated 3e
Hydric soil: no
Hydrologic group: B
Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 9 in		sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in		sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in		gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in		gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Sandberg

Extent: 30 to 50 percent of the unit
Landform(s): hills on outwash plains
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 4s
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 8 in		gravelly sandy loam	very rapid	0.39 to 1.02 in	6.1 to 7.8
Bk --	8 to 32 in		very gravelly sand	very rapid	0.48 to 1.44 in	7.4 to 8.4
C --	32 to 80 in		gravelly sand	very rapid	0.96 to 2.88 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J32A--Bigstone silty clay loam, depressional, 0 to 1 percent slopes

Bigstone, depressional

Extent: 70 to 90 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in		silty clay loam	moderate	1.77 to 2.17 in	7.4 to 8.4
A --	10 to 30 in		silty clay loam	moderate	3.61 to 4.42 in	7.4 to 8.4
Cg --	30 to 80 in		loam	moderate	7.50 to 9.50 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J42C--Sandberg-Arvilla complex, 6 to 12 percent slopes

Sandberg

Extent: 50 to 70 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw factor (surface layer) .15

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	gravelly sandy loam	very rapid	0.49 to 1.28 in	6.1 to 7.8
Bk -- 10 to 22 in	gravelly sand	very rapid	0.24 to 0.73 in	7.4 to 8.4
C -- 22 to 80 in	gravelly sand	very rapid	1.16 to 3.47 in	7.4 to 8.4

Arvilla

Extent: 25 to 35 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw -- 9 to 14 in	sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk -- 14 to 48 in	gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C -- 48 to 80 in	gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J45F--Sandberg sandy loam, 12 to 40 percent slopes

Sandberg

Extent: 70 to 90 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 12 to 40 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk -- 12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C -- 28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4

J47A--Swenoda sandy loam, 1 to 3 percent slopes

Swenoda, moderately wet

Extent: 75 to 95 percent of the unit

Landform(s): swales on outwash plains, flats on outwash plains

Slope gradient: 1 to 3 percent

Parent material: outwash over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 17 in	sandy loam	moderately rapid	2.20 to 2.54 in	6.1 to 7.3
Bw -- 17 to 29 in	sandy loam	moderately rapid	1.46 to 1.71 in	6.6 to 7.3
2C -- 29 to 80 in	silt loam	moderate	10.16 to 11.17 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J48A--Bigstone and Parnell soils, ponded, 0 to 1 percent slopes

Bigstone, ponded

Extent: 0 to 85 percent of the unit

Landform(s): depressions on moraines, depressions on lake plains, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw factor (surface layer) .28

Land capability, nonirrigated 8w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1 --	0 to 18 in		silty clay loam	moderate	3.26 to 3.98 in	7.4 to 8.4
A2 --	18 to 48 in		silty clay loam	moderate	5.39 to 6.58 in	7.4 to 8.4
2Cg --	48 to 80 in		loam	moderate	4.78 to 6.06 in	7.4 to 8.4

Parnell, ponded

Extent: 0 to 85 percent of the unit

Landform(s): depressions on moraines, depressions on lake plains, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 0

Kw factor (surface layer) .37

Land capability, nonirrigated 8w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 22 in		silty clay loam	moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg --	22 to 55 in		silty clay	slow	4.30 to 5.29 in	6.1 to 7.3
BCg --	55 to 80 in		silty clay loam	slow	3.97 to 4.71 in	6.6 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J57A--Balaton loam, 1 to 3 percent slopes

Balaton

Extent: 75 to 95 percent of the unit

Landform(s): knolls on till plains

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	loam		moderate	2.60 to 2.86 in	7.4 to 8.4
ABk,Bk --	13 to 31 in	loam		moderate	2.72 to 3.44 in	7.4 to 8.4
C --	31 to 80 in	loam		moderate	7.32 to 9.28 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J70A--Brandt silty clay loam, 0 to 2 percent slopes

Brandt

Extent: 80 to 90 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: loess over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in		silty clay loam	moderate	1.28 to 1.56 in	6.1 to 7.3
Bw1,Bw2,Bw3 --	7 to 34 in		silty clay loam	moderate	4.28 to 5.09 in	6.1 to 7.3
Bk1 --	34 to 44 in		silt loam	moderate	2.05 to 2.25 in	7.4 to 8.4
2Bk2,2C1 --	44 to 57 in		gravelly loam	moderately rapid	1.04 to 1.30 in	7.4 to 8.4
2C2 --	57 to 60 in		gravelly sand	very rapid	0.08 to 0.17 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J71A--Brookings silty clay loam, 1 to 3 percent slopes

Brookings

Extent: 75 to 85 percent of the unit

Landform(s): drainageways on till plains, flats on till plains

Slope gradient: 1 to 3 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silty clay loam	moderate	1.63 to 1.99 in	6.1 to 7.3
Bw1,Bw2,Bw3	9 to 30 in		silty clay loam	moderate	3.34 to 3.96 in	6.6 to 7.3
--						
2BC,2C --	30 to 60 in		clay loam	moderately slow	4.19 to 5.39 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J72B--Renshaw-Sandberg complex, 2 to 6 percent slopes

Renshaw

Extent: 65 to 85 percent of the unit
Landform(s): hills on outwash plains
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 3e
Hydric soil: no
Hydrologic group: B
Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw --	7 to 15 in	loam		moderately rapid	1.34 to 1.50 in	6.6 to 7.3
2Bk --	15 to 20 in	gravelly loamy sand		very rapid	0.26 to 0.36 in	7.4 to 8.4
2C --	20 to 60 in	gravelly loamy sand		very rapid	1.59 to 2.39 in	7.4 to 8.4

Sandberg

Extent: 10 to 20 percent of the unit
Landform(s): hills on outwash plains
Slope gradient: 2 to 6 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 3
Wind erodibility index (WEI): 86
Kw factor (surface layer) .15
Land capability, nonirrigated 4e
Hydric soil: no
Hydrologic group: A
Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
A1,A2 --	0 to 12 in	sandy loam		very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk --	12 to 28 in	gravelly sand		very rapid	0.48 to 0.81 in	7.4 to 8.4
C --	28 to 80 in	gravelly sand		very rapid	1.56 to 2.60 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J73D2--Buse clay loam, 12 to 18 percent slopes, moderately eroded

Buse, moderately eroded

Extent: 65 to 80 percent of the unit

Landform(s): hills on till plains

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	clay loam		moderately slow	1.20 to 1.35 in	7.4 to 8.4
ABk,Bk --	7 to 22 in	clay loam		moderately slow	2.09 to 2.69 in	7.4 to 8.4
C --	22 to 60 in	clay loam		moderately slow	5.29 to 6.80 in	7.4 to 8.4

J73E--Buse clay loam, 18 to 25 percent slopes

Buse

Extent: 75 to 85 percent of the unit

Landform(s): hills on till plains

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	clay loam		moderately slow	1.20 to 1.35 in	7.4 to 8.4
ABk,Bk --	7 to 22 in	clay loam		moderately slow	2.09 to 2.69 in	7.4 to 8.4
C --	22 to 60 in	clay loam		moderately slow	5.29 to 6.80 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J73F--Buse clay loam, 25 to 40 percent slopes

Buse

Extent: 75 to 85 percent of the unit

Landform(s): hills on till plains

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	clay loam		moderately slow	1.20 to 1.35 in	7.4 to 8.4
ABk,Bk --	7 to 22 in	clay loam		moderately slow	2.09 to 2.69 in	7.4 to 8.4
C --	22 to 60 in	clay loam		moderately slow	5.29 to 6.80 in	7.4 to 8.4

J74A--Estelline silty clay loam, 0 to 2 percent slopes

Estelline

Extent: 75 to 85 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: loess over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 10 in	silty clay loam		moderate	1.77 to 2.17 in	6.1 to 7.3
Bw1,Bw2,Bw3 --	10 to 30 in	silty clay loam		moderate	3.21 to 3.81 in	6.1 to 7.3
2C --	30 to 60 in	gravelly sand		very rapid	0.90 to 1.80 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J74B--Estelline silty clay loam, 2 to 6 percent slopes

Estelline

Extent: 80 to 90 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 2 to 6 percent

Parent material: loess over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 10 in	silty clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
Bw1,Bw2,Bw3 -- 10 to 30 in	silty clay loam	moderate	3.21 to 3.81 in	6.1 to 7.3
2C -- 30 to 60 in	gravelly sand	very rapid	0.90 to 1.80 in	7.4 to 8.4

J75A--Fordville loam, 0 to 2 percent slopes

Fordville

Extent: 80 to 90 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 6 in	loam	moderate	1.18 to 1.30 in	6.1 to 7.3
Bw -- 6 to 24 in	loam	moderate	3.08 to 3.44 in	6.1 to 7.3
2C -- 24 to 80 in	gravelly loamy sand	very rapid	2.24 to 3.35 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J75B--Fordville loam, 2 to 6 percent slopes

Fordville

Extent: 80 to 90 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	loam		moderate	1.18 to 1.30 in	6.1 to 7.3
Bw --	6 to 24 in	loam		moderate	3.08 to 3.44 in	6.1 to 7.3
2C --	24 to 80 in	gravelly loamy sand		very rapid	2.24 to 3.35 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J78A--Lismore silty clay loam, 1 to 3 percent slopes

Lismore

Extent: 65 to 85 percent of the unit

Landform(s): hills on till plains

Slope gradient: 1 to 3 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
A --	8 to 17 in		silty clay loam	moderate	1.63 to 1.99 in	6.1 to 7.3
2Bw1,2Bw2 --	17 to 32 in		clay loam	moderately slow	2.24 to 2.84 in	6.1 to 7.3
2Bk --	32 to 48 in		clay loam	moderately slow	2.26 to 2.91 in	7.4 to 8.4
2C --	48 to 60 in		clay loam	moderately slow	1.65 to 2.13 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J79B--Vienna-Brookings complex, 1 to 4 percent slopes

Vienna, occasional saturation

Extent: 45 to 65 percent of the unit

Landform(s): hills on till plains

Slope gradient: 1 to 4 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
Bw -- 10 to 15 in	silty clay loam	moderate	0.82 to 0.97 in	6.1 to 7.3
2Bw -- 15 to 23 in	clay loam	moderately slow	1.10 to 1.42 in	6.1 to 7.3
2Bk,2C -- 23 to 60 in	clay loam	moderately slow	5.18 to 6.66 in	7.4 to 8.4

Brookings

Extent: 25 to 45 percent of the unit

Landform(s): hills on till plains

Slope gradient: 1 to 4 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silty clay loam	moderate	1.63 to 1.99 in	6.1 to 7.3
Bw1,Bw2,Bw3 -- 9 to 30 in	silty clay loam	moderate	3.34 to 3.96 in	6.6 to 7.3
2BC,2C -- 30 to 60 in	clay loam	moderately slow	4.19 to 5.39 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J80A--Lamoure-La Prairie complex, channeled, 0 to 2 percent slopes, frequently flooded

Lamoure, channeled, frequently flooded

Extent: 40 to 60 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 27 in		silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 --	27 to 34 in		silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 --	34 to 60 in		silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4

La Prairie, channeled, frequently flooded

Extent: 30 to 50 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		loam	moderate	1.81 to 1.99 in	6.6 to 8.4
A --	9 to 38 in		loam	moderate	5.83 to 6.41 in	6.6 to 8.4
Bw --	38 to 50 in		loam	moderate	2.01 to 2.24 in	6.6 to 8.4
C --	50 to 60 in		loam	moderate	1.67 to 1.87 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J81C2--Renshaw-Barnes complex, 6 to 12 percent slopes, moderately eroded

Renshaw, moderately eroded

Extent: 60 to 80 percent of the unit
Landform(s): hills on outwash plains
Slope gradient: 6 to 12 percent
Parent material: outwash
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .28
Land capability, nonirrigated 4e
Hydric soil: no
Hydrologic group: B
Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw --	7 to 15 in	loam		moderately rapid	1.34 to 1.50 in	6.6 to 7.3
2Bk --	15 to 20 in	gravelly loamy sand		very rapid	0.26 to 0.36 in	7.4 to 8.4
2C --	20 to 60 in	gravelly loamy sand		very rapid	1.59 to 2.39 in	7.4 to 8.4

Barnes, moderately eroded

Extent: 10 to 30 percent of the unit
Landform(s): hills on outwash plains
Slope gradient: 6 to 12 percent
Parent material: till
Restrictive feature(s): greater than 60 inches
Flooding: none
Ponding: none
Drainage class: well drained

Soil loss tolerance (T factor): 5
Wind erodibility group (WEG): 6
Wind erodibility index (WEI): 48
Kw factor (surface layer) .24
Land capability, nonirrigated 3e
Hydric soil: no
Hydrologic group: B
Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 11 in	clay loam		moderately slow	1.87 to 2.09 in	6.1 to 7.3
Bw --	11 to 17 in	clay loam		moderately slow	0.89 to 1.12 in	6.1 to 7.3
Bk --	17 to 31 in	clay loam		moderately slow	1.93 to 2.48 in	7.4 to 8.4
BC --	31 to 60 in	clay loam		moderately slow	4.08 to 5.24 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J83F--Sandberg-Buse-Everts complex, 12 to 40 percent slopes

Sandberg

Extent: 45 to 65 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 12 to 40 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk -- 12 to 28 in	gravelly sand	very rapid	0.48 to 0.81 in	7.4 to 8.4
C -- 28 to 80 in	gravelly sand	very rapid	1.56 to 2.60 in	7.4 to 8.4

Buse

Extent: 15 to 35 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 12 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	clay loam	moderately slow	1.20 to 1.35 in	7.4 to 8.4
ABk,Bk -- 7 to 22 in	clay loam	moderately slow	2.09 to 2.69 in	7.4 to 8.4
C -- 22 to 60 in	clay loam	moderately slow	5.29 to 6.80 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J83F--Sandberg-Buse-Everts complex, 12 to 40 percent slopes

Everts

Extent: 10 to 20 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 12 to 40 percent

Parent material: colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 38 in	loam	moderate	7.64 to 8.40 in	6.6 to 7.3
Bw -- 38 to 54 in	loam	moderate	2.68 to 2.99 in	6.1 to 7.3
2C -- 54 to 80 in	very gravelly coarse sand	very rapid	0.52 to 1.04 in	7.4 to 8.4

J84A--Strayhoss loam, 0 to 2 percent slopes

Strayhoss

Extent: 80 to 90 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2,Bw3 -- 7 to 30 in	silt loam	moderate	4.57 to 5.02 in	6.1 to 7.3
Bk -- 30 to 36 in	loam	moderate	1.00 to 1.12 in	7.4 to 8.4
2C1,2C2 -- 36 to 60 in	loamy sand	rapid	1.92 to 2.40 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J84B--Strayhoss loam, 2 to 6 percent slopes

Strayhoss

Extent: 80 to 90 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2,Bw3 --	7 to 30 in	silt loam		moderate	4.57 to 5.02 in	6.1 to 7.3
Bk --	30 to 36 in	loam		moderate	1.00 to 1.12 in	7.4 to 8.4
2C1,2C2 --	36 to 60 in	loamy sand		rapid	1.92 to 2.40 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J85A--Trosky silty clay loam, 0 to 2 percent slopes

Trosky

Extent: 85 to 95 percent of the unit

Landform(s): drainageways on outwash plains, flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: loess over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 20 in	silty clay loam	moderate	3.61 to 4.42 in	7.4 to 8.4
Bkg1,Bkg2 --	20 to 38 in	silty clay loam	moderate	2.90 to 3.44 in	7.4 to 8.4
2Cg --	38 to 60 in	gravelly coarse sand	rapid	0.87 to 1.30 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J86B--Vienna silty clay loam, 3 to 6 percent slopes

Vienna, occasional saturation

Extent: 80 to 90 percent of the unit

Landform(s): hills on till plains

Slope gradient: 3 to 6 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	silty clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
Bw --	10 to 15 in	silty clay loam	moderate	0.82 to 0.97 in	6.1 to 7.3
2Bw --	15 to 23 in	clay loam	moderately slow	1.10 to 1.42 in	6.1 to 7.3
2Bk,2C --	23 to 60 in	clay loam	moderately slow	5.18 to 6.66 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J88B--Kranzburg silty clay loam, 3 to 6 percent slopes

Kranzburg, occasional saturation

Extent: 80 to 90 percent of the unit

Landform(s): hills on till plains

Slope gradient: 3 to 6 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silty clay loam	moderate	1.63 to 1.99 in	6.1 to 7.3
Bw1,Bw2 --	9 to 25 in		silty clay loam	moderate	2.58 to 3.07 in	6.6 to 7.3
2Bk --	25 to 57 in		clay loam	moderately slow	4.46 to 5.74 in	7.4 to 8.4
2C --	57 to 60 in		clay loam	moderately slow	0.39 to 0.50 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J89B--Lanona-Swenoda complex, 2 to 6 percent slopes

Lanona, occasional saturation

Extent: 40 to 60 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 2 to 6 percent

Parent material: outwash over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 8 in	fine sandy loam		moderately rapid	1.26 to 1.42 in	6.1 to 7.3
Bw1,Bw2 --	8 to 28 in	fine sandy loam		moderately rapid	3.01 to 3.41 in	6.6 to 7.3
2Bk --	28 to 42 in	loam		moderate	2.41 to 2.69 in	7.4 to 8.4
2C --	42 to 60 in	loam		moderate	3.01 to 3.37 in	7.4 to 8.4

Swenoda

Extent: 30 to 50 percent of the unit

Landform(s): hills on outwash plains

Slope gradient: 2 to 6 percent

Parent material: outwash over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap,A --	0 to 17 in	sandy loam		moderately rapid	2.20 to 2.54 in	6.1 to 7.3
Bw --	17 to 29 in	sandy loam		moderately rapid	1.46 to 1.71 in	6.6 to 7.3
2C --	29 to 80 in	silt loam		moderate	10.16 to 11.17 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J90B--Kranzburg-Brookings complex, 1 to 4 percent slopes

Kranzburg, occasional saturation

Extent: 45 to 65 percent of the unit

Landform(s): hills on till plains

Slope gradient: 1 to 4 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silty clay loam	moderate	1.63 to 1.99 in	6.1 to 7.3
Bw1,Bw2 --	9 to 25 in		silty clay loam	moderate	2.58 to 3.07 in	6.6 to 7.3
2Bk --	25 to 57 in		clay loam	moderately slow	4.46 to 5.74 in	7.4 to 8.4
2C --	57 to 60 in		clay loam	moderately slow	0.39 to 0.50 in	7.4 to 8.4

Brookings

Extent: 25 to 45 percent of the unit

Landform(s): hills on till plains

Slope gradient: 1 to 4 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silty clay loam	moderate	1.63 to 1.99 in	6.1 to 7.3
Bw1,Bw2,Bw3 --	9 to 30 in		silty clay loam	moderate	3.34 to 3.96 in	6.6 to 7.3
2BC,2C --	30 to 60 in		clay loam	moderately slow	4.19 to 5.39 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J91B--Darnen loam, stratified substratum, 2 to 6 percent slopes

Darnen, stratified substratum

Extent: 85 to 95 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1,A2 --	0 to 30 in	loam		moderate	5.98 to 6.58 in	6.6 to 7.3
Bk1,Bk2 --	30 to 62 in	loam		moderate	5.42 to 6.06 in	7.4 to 8.4
C1 --	62 to 74 in	loamy sand		moderately rapid	0.98 to 1.59 in	7.4 to 8.4
C2 --	74 to 80 in	clay loam		moderately slow	0.77 to 1.12 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J92C2--Buse-Vienna complex, 6 to 12 percent slopes, moderately eroded

Buse, moderately eroded

Extent: 45 to 55 percent of the unit

Landform(s): hills on till plains

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	clay loam	moderately slow	1.20 to 1.35 in	7.4 to 8.4
ABk,Bk -- 7 to 22 in	clay loam	moderately slow	2.09 to 2.69 in	7.4 to 8.4
C -- 22 to 60 in	clay loam	moderately slow	5.29 to 6.80 in	7.4 to 8.4

Vienna, moderately eroded

Extent: 15 to 25 percent of the unit

Landform(s): hills on till plains

Slope gradient: 6 to 12 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderate	1.77 to 2.17 in	6.1 to 7.3
Bw -- 10 to 15 in	silty clay loam	moderate	0.82 to 0.97 in	6.1 to 7.3
2Bw -- 15 to 23 in	clay loam	moderately slow	1.10 to 1.42 in	6.1 to 7.3
2Bk,2C -- 23 to 60 in	clay loam	moderately slow	5.18 to 6.66 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J93A--Hidewood-Badger complex, 0 to 2 percent slopes

Hidewood

Extent: 40 to 60 percent of the unit

Landform(s): flats on till plains, drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		silty clay loam	moderate	1.42 to 1.73 in	7.4 to 8.4
A --	8 to 27 in		silty clay loam	moderate	3.47 to 4.24 in	7.4 to 8.4
Cg --	27 to 42 in		silty clay loam	moderate	2.39 to 2.84 in	7.4 to 8.4
2Cg --	42 to 80 in		clay loam	moderately slow	5.29 to 6.80 in	7.4 to 8.4

Badger

Extent: 20 to 40 percent of the unit

Landform(s): drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: loess over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .37

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silty clay loam	moderately slow	1.63 to 1.99 in	6.1 to 7.3
Bt1,Bt2 --	9 to 35 in		silty clay	slow	3.38 to 4.16 in	6.1 to 7.3
BCg,Cg --	35 to 55 in		silty clay loam	moderately slow	3.21 to 3.81 in	6.6 to 8.4
2Cg --	55 to 60 in		clay loam	moderately slow	0.66 to 0.76 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J95E--Buse, stony-Wilno complex, 18 to 25 percent slopes

Buse, stony

Extent: 65 to 85 percent of the unit

Landform(s): hills on moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk -- 8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C -- 37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J95F--Buse, stony-Wilno complex, 25 to 40 percent slopes

Buse, stony

Extent: 65 to 85 percent of the unit

Landform(s): hills on moraines

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk -- 8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C -- 37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J96B--Barnes-Buse complex, 3 to 6 percent slopes

Barnes, occasional saturation

Extent: 55 to 75 percent of the unit

Landform(s): hills on moraines, hills on till plains

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 11 in	loam	moderate	2.20 to 2.43 in	6.1 to 7.3
Bw --	11 to 26 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
Bk --	26 to 44 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C --	44 to 80 in	loam	moderately slow	5.37 to 6.81 in	7.4 to 8.4

Buse

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines, hills on till plains

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk --	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C --	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J96C2--Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded

Barnes, moderately eroded

Extent: 40 to 60 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2 --	7 to 19 in	loam		moderate	2.01 to 2.24 in	6.1 to 7.3
Bk --	19 to 37 in	loam		moderate	2.72 to 3.44 in	7.4 to 8.4
C --	37 to 60 in	loam		moderately slow	3.43 to 4.34 in	7.4 to 8.4

Buse, moderately eroded

Extent: 20 to 40 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 --	8 to 40 in	loam		moderate	4.84 to 6.13 in	7.4 to 8.4
C --	40 to 60 in	loam		moderately slow	2.95 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J97B--Singsaas-Oak Lake complex, 1 to 6 percent slopes

Singsaas, occasional saturation

Extent: 55 to 75 percent of the unit

Landform(s): hills on till plains

Slope gradient: 1 to 6 percent

Parent material: lacustrine deposits over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silty clay loam		moderate	1.63 to 1.99 in	6.1 to 7.3
AB --	9 to 13 in	silty clay loam		moderate	0.71 to 0.87 in	6.1 to 7.3
Bw --	13 to 19 in	silty clay loam		moderate	0.94 to 1.12 in	6.6 to 7.3
2Bk --	19 to 41 in	loam		moderately slow	3.31 to 4.19 in	7.4 to 8.4
2C --	41 to 80 in	loam		moderately slow	5.85 to 7.41 in	7.4 to 8.4

Oak Lake

Extent: 15 to 25 percent of the unit

Landform(s): swales on till plains, flats on till plains

Slope gradient: 1 to 3 percent

Parent material: lacustrine deposits over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silty clay loam		moderate	1.42 to 1.73 in	6.1 to 7.3
AB --	8 to 16 in	silty clay loam		moderate	1.49 to 1.82 in	6.1 to 7.3
Bw --	16 to 22 in	silty clay loam		moderate	0.94 to 1.12 in	6.6 to 7.3
Bk --	22 to 30 in	silty clay loam		moderate	1.26 to 1.50 in	7.4 to 8.4
2C --	30 to 80 in	clay loam		moderately slow	7.00 to 9.00 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J98A--Parnell silty clay loam, 0 to 2 percent slopes

Parnell

Extent: 80 to 95 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines, depressions on till plains

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .37

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in		silty clay loam	moderately slow	2.91 to 3.55 in	6.1 to 7.3
Btg --	16 to 40 in		silty clay	slow	3.12 to 3.84 in	6.1 to 7.3
BCg --	40 to 80 in		silty clay loam	slow	6.36 to 7.56 in	6.6 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J99A--Lakepark clay loam, 0 to 3 percent slopes, overwash

Lakepark, overwash

Extent: 75 to 95 percent of the unit

Landform(s): drainageways on moraines

Slope gradient: 0 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam		moderate	1.34 to 1.50 in	6.1 to 7.3
A --	8 to 40 in	clay loam		moderate	5.49 to 6.13 in	6.1 to 7.3
Bg --	40 to 60 in	clay loam		moderate	2.95 to 3.74 in	6.6 to 7.3
Cg --	60 to 80 in	loam		moderately slow	3.01 to 3.81 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J100D2--Buse, eroded-Wilno complex, 12 to 18 percent slopes

Buse, moderately eroded

Extent: 60 to 80 percent of the unit

Landform(s): hills on moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J101B--Hokans-Svea complex, 1 to 4 percent slopes

Hokans

Extent: 60 to 80 percent of the unit

Landform(s): hills on moraines

Slope gradient: 1 to 4 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 15 in	loam	moderate	2.99 to 3.29 in	6.1 to 7.3
Bw --	15 to 22 in	loam	moderate	1.20 to 1.35 in	6.1 to 7.3
Bk --	22 to 40 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C --	40 to 80 in	loam	moderately slow	5.96 to 7.56 in	7.4 to 8.4

Svea

Extent: 15 to 25 percent of the unit

Landform(s): swales on moraines, flats on moraines

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 10 in	loam	moderate	1.97 to 2.17 in	6.1 to 7.3
Bw --	10 to 21 in	loam	moderate	1.87 to 2.09 in	6.6 to 7.3
Bk --	21 to 36 in	clay loam	moderate	2.24 to 2.84 in	7.4 to 8.4
C --	36 to 60 in	loam	moderately slow	3.60 to 4.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J102A--Oak Lake silty clay loam, 1 to 3 percent slopes

Oak Lake

Extent: 70 to 90 percent of the unit

Landform(s): swales on till plains, flats on till plains

Slope gradient: 1 to 3 percent

Parent material: lacustrine deposits over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
AB --	8 to 16 in		silty clay loam	moderate	1.49 to 1.82 in	6.1 to 7.3
Bw --	16 to 22 in		silty clay loam	moderate	0.94 to 1.12 in	6.6 to 7.3
Bk --	22 to 30 in		silty clay loam	moderate	1.26 to 1.50 in	7.4 to 8.4
2C --	30 to 80 in		clay loam	moderately slow	7.00 to 9.00 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J103A--Winger silty clay loam, 0 to 2 percent slopes

Winger

Extent: 70 to 90 percent of the unit

Landform(s): rims on depressions on lake plains, flats on lake plains, drainageways on lake plains

Slope gradient: 0 to 2 percent

Parent material: lacustrine deposits over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silty clay loam	moderate	1.28 to 1.56 in	7.4 to 8.4
Ak --	7 to 22 in	silt loam	moderate	3.29 to 3.59 in	7.4 to 8.4
Bkg --	22 to 27 in	silt loam	moderate	1.02 to 1.13 in	7.4 to 8.4
Cg1 --	27 to 31 in	silt loam	moderate	0.79 to 0.87 in	7.4 to 8.4
2Cg2 --	31 to 80 in	loam	moderately slow	7.32 to 9.28 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J104A--Svea loam, 1 to 3 percent slopes

Svea

Extent: 65 to 85 percent of the unit

Landform(s): swales on moraines, flats on moraines

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 10 in	loam		moderate	1.97 to 2.17 in	6.1 to 7.3
Bw --	10 to 21 in	loam		moderate	1.87 to 2.09 in	6.6 to 7.3
Bk --	21 to 36 in	clay loam		moderate	2.24 to 2.84 in	7.4 to 8.4
C --	36 to 60 in	loam		moderately slow	3.60 to 4.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J105A--Arvilla sandy loam, 0 to 2 percent slopes

Arvilla

Extent: 75 to 95 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in		sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in		gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in		gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J106B--Barnes-Buse-Svea complex, 1 to 6 percent slopes

Barnes, occasional saturation

Extent: 50 to 70 percent of the unit

Landform(s): hills on moraines, hills on till plains

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 11 in	loam	moderate	2.20 to 2.43 in	6.1 to 7.3
Bw --	11 to 26 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
Bk --	26 to 44 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C --	44 to 80 in	loam	moderately slow	5.37 to 6.81 in	7.4 to 8.4

Buse

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines, hills on till plains

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 --	8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C --	40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J106B--Barnes-Buse-Svea complex, 1 to 6 percent slopes

Svea

Extent: 10 to 20 percent of the unit

Landform(s): swales on moraines, flats on moraines, swales on till plains, flats on till plains

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 10 in	loam		moderate	1.97 to 2.17 in	6.1 to 7.3
Bw --	10 to 21 in	loam		moderate	1.87 to 2.09 in	6.6 to 7.3
Bk --	21 to 36 in	clay loam		moderate	2.24 to 2.84 in	7.4 to 8.4
C --	36 to 60 in	loam		moderately slow	3.60 to 4.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J107A--Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes

Lakepark

Extent: 30 to 40 percent of the unit

Landform(s): drainageways on moraines

Slope gradient: 0 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	6.1 to 7.3
A -- 8 to 27 in	loam	moderate	3.86 to 4.24 in	6.1 to 7.3
Bg -- 27 to 41 in	loam	moderate	2.34 to 2.62 in	6.6 to 7.3
Cg -- 41 to 80 in	loam	moderately slow	5.85 to 7.41 in	7.4 to 8.4

Roliss

Extent: 20 to 30 percent of the unit

Landform(s): drainageways on moraines, flats on moraines, rims on moraines

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .32

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	loam	moderate	1.36 to 1.72 in	7.4 to 8.4
A -- 9 to 14 in	clay loam	moderate	0.87 to 0.97 in	7.4 to 8.4
Bg -- 14 to 20 in	clay loam	moderate	1.00 to 1.12 in	7.4 to 8.4
Cg -- 20 to 80 in	loam	moderately slow	8.98 to 11.37 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J107A--Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes

Parnell, depressional

Extent: 10 to 20 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .37

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative soil profile:			Texture	Permeability	Available water capacity	pH
A1,A2 --	0 to 22 in		silty clay loam	moderately slow	3.97 to 4.85 in	6.1 to 7.3
Btg --	22 to 55 in		silty clay	slow	4.30 to 5.29 in	6.1 to 7.3
BCg --	55 to 80 in		silty clay loam	slow	3.97 to 4.71 in	6.6 to 8.4

J195B--Poinsett silty clay loam, 2 to 6 percent slopes

Poinsett, occasional saturation

Extent: 70 to 90 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 2 to 6 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 8 in		silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bw --	8 to 23 in		silty clay loam	moderate	2.39 to 2.84 in	6.1 to 7.3
Bk --	23 to 62 in		silty clay loam	moderate	6.24 to 7.41 in	7.4 to 8.4
2C --	62 to 80 in		clay loam	moderately slow	2.54 to 3.26 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J197B--Lake Benton sandy loam, 2 to 6 percent slopes

Lake Benton, occasional saturation

Extent: 65 to 85 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: outwash over lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	sandy loam		moderately rapid	1.28 to 1.48 in	6.1 to 7.3
Bw --	10 to 21 in	sandy loam		moderately rapid	1.32 to 1.54 in	6.6 to 7.3
Bk --	21 to 25 in	sandy loam		moderately rapid	0.52 to 0.61 in	7.4 to 8.4
C --	25 to 42 in	sand		rapid	0.85 to 1.19 in	7.4 to 8.4
2C --	42 to 80 in	silt loam		moderate	6.43 to 7.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J197C--Lake Benton sandy loam, 6 to 12 percent slopes

Lake Benton

Extent: 65 to 85 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: outwash over lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in		sandy loam	moderately rapid	1.28 to 1.48 in	6.1 to 7.3
Bw --	10 to 21 in		sandy loam	moderately rapid	1.32 to 1.54 in	6.6 to 7.3
Bk --	21 to 25 in		sandy loam	moderately rapid	0.52 to 0.61 in	7.4 to 8.4
C --	25 to 42 in		sand	rapid	0.85 to 1.19 in	7.4 to 8.4
2C --	42 to 80 in		silt loam	moderate	6.43 to 7.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J198C2--Rusklyn-Poinsett complex, 6 to 12 percent slopes, moderately eroded

Rusklyn, moderately eroded

Extent: 40 to 50 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 6 to 12 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silty clay loam	moderate	1.63 to 1.99 in	7.4 to 8.4
Bk --	9 to 28 in		silty clay loam	moderate	3.02 to 3.59 in	7.4 to 8.4
C1 --	28 to 53 in		silty clay loam	moderate	4.03 to 4.79 in	7.4 to 8.4
2C2 --	53 to 80 in		clay loam	moderately slow	3.75 to 4.82 in	7.4 to 8.4

Poinsett, moderately eroded

Extent: 35 to 45 percent of the unit

Landform(s): hills on lake plains

Slope gradient: 6 to 12 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bw --	8 to 23 in		silty clay loam	moderate	2.39 to 2.84 in	6.1 to 7.3
Bk --	23 to 62 in		silty clay loam	moderate	6.24 to 7.41 in	7.4 to 8.4
2C --	62 to 80 in		clay loam	moderately slow	2.54 to 3.26 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J199A--Fulda silty clay, 0 to 2 percent slopes

Fulda

Extent: 75 to 95 percent of the unit

Landform(s): flats on moraines, drainageways on moraines

Slope gradient: 0 to 2 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in		silty clay	slow	1.69 to 2.21 in	6.1 to 7.3
Bg --	13 to 33 in		silty clay	slow	2.01 to 3.81 in	6.6 to 7.3
Bkg --	33 to 40 in		silty clay	slow	0.71 to 1.35 in	7.4 to 8.4
Cg --	40 to 60 in		silty clay	slow	1.97 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J227D2--Buse, moderately eroded-Sandberg complex, 12 to 18 percent slopes

Buse, moderately eroded

Extent: 40 to 60 percent of the unit

Landform(s): hills on moraines

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 --	8 to 40 in	loam		moderate	4.84 to 6.13 in	7.4 to 8.4
C --	40 to 60 in	loam		moderately slow	2.95 to 3.74 in	7.4 to 8.4

Sandberg

Extent: 20 to 40 percent of the unit

Landform(s): hills on moraines

Slope gradient: 12 to 18 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 12 in	sandy loam		very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk --	12 to 28 in	gravelly sand		very rapid	0.32 to 0.97 in	7.4 to 8.4
C --	28 to 80 in	gravelly sand		very rapid	1.04 to 3.12 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J227F--Buse-Sandberg complex, 18 to 40 percent slopes

Buse

Extent: 40 to 60 percent of the unit

Landform(s): hills on moraines

Slope gradient: 18 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk -- 8 to 37 in	loam	moderate	4.37 to 5.54 in	7.4 to 8.4
C -- 37 to 80 in	loam	moderately slow	6.44 to 8.15 in	7.4 to 8.4

Sandberg

Extent: 20 to 40 percent of the unit

Landform(s): hills on moraines

Slope gradient: 18 to 40 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 12 in	sandy loam	very rapid	1.54 to 1.77 in	6.1 to 7.8
Bk -- 12 to 28 in	gravelly sand	very rapid	0.32 to 0.97 in	7.4 to 8.4
C -- 28 to 80 in	gravelly sand	very rapid	1.04 to 3.12 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J232B--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

Barnes, occasional saturation

Extent: 30 to 40 percent of the unit

Landform(s): hills on moraines, hills on till plains

Slope gradient: 2 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 11 in	loam	moderate	2.20 to 2.43 in	6.1 to 7.3
Bw -- 11 to 26 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
Bk -- 26 to 44 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 44 to 80 in	loam	moderately slow	5.37 to 6.81 in	7.4 to 8.4

Buse

Extent: 25 to 35 percent of the unit

Landform(s): hills on moraines, hills on till plains

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J232B--Barnes-Buse-Arvilla complex, 2 to 6 percent slopes

Arvilla

Extent: 20 to 30 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in		sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in		gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in		gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J235C2--Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded

Buse, moderately eroded

Extent: 30 to 40 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	loam	moderate	1.57 to 1.73 in	7.4 to 8.4
Bk1,Bk2 -- 8 to 40 in	loam	moderate	4.84 to 6.13 in	7.4 to 8.4
C -- 40 to 60 in	loam	moderately slow	2.95 to 3.74 in	7.4 to 8.4

Barnes, moderately eroded

Extent: 25 to 35 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	6.1 to 7.3
Bw1,Bw2 -- 7 to 19 in	loam	moderate	2.01 to 2.24 in	6.1 to 7.3
Bk -- 19 to 37 in	loam	moderate	2.72 to 3.44 in	7.4 to 8.4
C -- 37 to 60 in	loam	moderately slow	3.43 to 4.34 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J235C2--Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded

Arvilla

Extent: 20 to 30 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		sandy loam	moderately rapid	1.18 to 1.36 in	6.1 to 7.3
Bw --	9 to 14 in		sandy loam	moderately rapid	0.61 to 0.72 in	6.6 to 7.3
2Bk --	14 to 48 in		gravelly sand	very rapid	0.68 to 1.69 in	7.4 to 8.4
2C --	48 to 80 in		gravelly sand	very rapid	0.64 to 1.59 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J236A--Highpoint Lake silty clay, 0 to 2 percent slopes

Highpoint Lake

Extent: 80 to 95 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 2 percent

Parent material: lacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 18 in		silty clay	slow	2.35 to 3.08 in	6.1 to 7.3
Bw --	18 to 25 in		silty clay	slow	0.71 to 1.35 in	6.6 to 7.3
Bk --	25 to 53 in		silty clay loam	slow	2.80 to 5.31 in	7.4 to 8.4
C --	53 to 80 in		silty clay loam	slow	2.68 to 5.09 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J237A--Brensall-Tress complex, 0 to 2 percent slopes

Brensall

Extent: 60 to 80 percent of the unit

Landform(s): flats on till plains

Slope gradient: 1 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt --	8 to 15 in	clay loam	moderately slow	1.06 to 1.35 in	6.6 to 7.3
Bk --	15 to 48 in	clay loam	moderately slow	4.63 to 5.29 in	7.4 to 8.4
BC --	48 to 80 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4

Tress

Extent: 15 to 25 percent of the unit

Landform(s): swales on till plains

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 20 in	clay loam	moderately slow	3.41 to 3.81 in	6.1 to 7.3
Bt --	20 to 36 in	clay loam	moderately slow	2.36 to 2.99 in	6.6 to 7.3
Bk --	36 to 48 in	clay loam	moderately slow	1.71 to 1.95 in	7.4 to 8.4
BC --	48 to 80 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J237B--Brensall-Tress complex, 1 to 4 percent slopes

Brensall

Extent: 50 to 70 percent of the unit

Landform(s): flats on till plains

Slope gradient: 1 to 4 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam		moderately slow	1.34 to 1.50 in	6.1 to 7.3
Bt --	8 to 15 in	clay loam		moderately slow	1.06 to 1.35 in	6.6 to 7.3
Bk --	15 to 48 in	clay loam		moderately slow	4.63 to 5.29 in	7.4 to 8.4
BC --	48 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

Tress

Extent: 20 to 30 percent of the unit

Landform(s): swales on till plains

Slope gradient: 1 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 20 in	clay loam		moderately slow	3.41 to 3.81 in	6.1 to 7.3
Bt --	20 to 36 in	clay loam		moderately slow	2.36 to 2.99 in	6.6 to 7.3
Bk --	36 to 48 in	clay loam		moderately slow	1.71 to 1.95 in	7.4 to 8.4
BC --	48 to 80 in	clay loam		moderately slow	4.46 to 5.10 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J238D2--Buse, firm till-Wilno complex, 12 to 18 percent slopes

Buse, firm till, moderately eroded

Extent: 50 to 70 percent of the unit

Landform(s): hills on till plains

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	clay loam		moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk --	9 to 34 in	clay loam		moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC --	34 to 80 in	clay loam		moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 15 to 25 percent of the unit

Landform(s): hills on till plains

Slope gradient: 12 to 18 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 42 in	loam		moderate	8.43 to 9.27 in	6.1 to 7.3
AB --	42 to 52 in	loam		moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 --	52 to 80 in	loam		moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J238E--Buse, firm till-Wilno complex, 18 to 25 percent slopes

Buse, firm till

Extent: 65 to 85 percent of the unit

Landform(s): hills on till plains

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk -- 9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC -- 34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on till plains

Slope gradient: 18 to 25 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB -- 42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 -- 52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J238F--Buse, firm till-Wilno complex, 25 to 40 percent slopes

Buse, firm till

Extent: 65 to 85 percent of the unit

Landform(s): hills on till plains

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk --	9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC --	34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 25 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 42 in	loam	moderate	8.43 to 9.27 in	6.1 to 7.3
AB --	42 to 52 in	loam	moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 --	52 to 80 in	loam	moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J240B--Forman-Aastad complex, 3 to 6 percent slopes

Forman, occasional saturation

Extent: 40 to 60 percent of the unit

Landform(s): hills on till plains

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.6 to 7.3
Bt1 --	8 to 14 in	clay loam	moderately slow	0.94 to 1.20 in	6.6 to 7.3
Bt2 --	14 to 17 in	clay loam	moderately slow	0.41 to 0.52 in	6.6 to 7.3
Bk --	17 to 44 in	clay loam	moderately slow	3.80 to 4.35 in	7.4 to 8.4
Bky --	44 to 60 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4

Aastad

Extent: 15 to 25 percent of the unit

Landform(s): swales on till plains

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1,A2 --	0 to 19 in	clay loam	moderately slow	3.21 to 3.59 in	6.1 to 7.3
Bw --	19 to 32 in	clay loam	moderately slow	1.95 to 2.47 in	6.6 to 7.3
Bk --	32 to 46 in	clay loam	moderately slow	1.98 to 2.27 in	7.4 to 8.4
BC --	46 to 60 in	clay loam	moderately slow	1.93 to 2.20 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J242F--Buse, firm till-Wilno-Lamoure, frequently flooded complex, 0 to 40 percent slopes

Buse, firm till

Extent: 55 to 75 percent of the unit

Landform(s): hills on till plains

Slope gradient: 12 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	clay loam		moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk --	9 to 34 in	clay loam		moderately slow	3.47 to 3.97 in	7.4 to 8.4
C --	34 to 80 in	clay loam		moderately slow	6.45 to 7.37 in	7.4 to 8.4

Wilno

Extent: 10 to 20 percent of the unit

Landform(s): hills on moraines

Slope gradient: 12 to 40 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 7e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 42 in	loam		moderate	8.43 to 9.27 in	6.1 to 7.3
AB --	42 to 52 in	loam		moderate	1.67 to 1.87 in	6.1 to 7.3
Bw1,Bw2 --	52 to 80 in	loam		moderate	4.75 to 5.31 in	6.1 to 7.3

Map Unit Description (MN)

Lincoln County, Minnesota

J242F--Buse, firm till-Wilno-Lamoure, frequently flooded complex, 0 to 40 percent slopes

Lamoure, frequently flooded

Extent: 10 to 20 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 --	0 to 27 in	silty clay loam	moderate	4.89 to 5.98 in	7.4 to 8.4
Cg1 --	27 to 34 in	silty clay loam	moderate	1.07 to 1.27 in	7.4 to 8.4
Cg2 --	34 to 60 in	silt loam	moderate	5.20 to 5.72 in	7.4 to 8.4

J243A--Balaton clay loam, 1 to 3 percent slopes

Balaton

Extent: 85 to 95 percent of the unit

Landform(s): knolls on till plains

Slope gradient: 1 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	clay loam	moderately slow	1.67 to 1.87 in	7.4 to 8.4
Bk --	10 to 28 in	clay loam	moderately slow	2.54 to 2.90 in	7.4 to 8.4
BC --	28 to 60 in	clay loam	moderately slow	4.46 to 5.10 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J250C2--Forman-Buse complex, 6 to 12 percent slopes, moderately eroded

Forman, moderately eroded

Extent: 40 to 50 percent of the unit

Landform(s): hills on till plains

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	clay loam	moderately slow	1.34 to 1.50 in	6.6 to 7.3
Bt1 --	8 to 14 in	clay loam	moderately slow	0.94 to 1.20 in	6.6 to 7.3
Bt2 --	14 to 17 in	clay loam	moderately slow	0.41 to 0.52 in	6.6 to 7.3
Bk --	17 to 44 in	clay loam	moderately slow	3.80 to 4.35 in	7.4 to 8.4
Bky --	44 to 60 in	clay loam	moderately slow	2.20 to 2.52 in	7.4 to 8.4

Buse, moderately eroded, firm till

Extent: 35 to 45 percent of the unit

Landform(s): hills on till plains

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	clay loam	moderately slow	1.54 to 1.72 in	7.4 to 8.4
Bk --	9 to 34 in	clay loam	moderately slow	3.47 to 3.97 in	7.4 to 8.4
BC --	34 to 80 in	clay loam	moderately slow	6.45 to 7.37 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

J251A--Parnell silty clay loam, firm till, 0 to 2 percent slopes

Parnell, firm till

Extent: 70 to 80 percent of the unit

Landform(s): drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 7

Wind erodibility index (WEI): 38

Kw factor (surface layer) .37

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 25 in		silty clay loam	moderately slow	4.54 to 5.54 in	6.1 to 7.3
Btg --	25 to 44 in		silty clay	slow	2.46 to 3.02 in	6.1 to 7.3
Bkg --	44 to 62 in		clay loam	moderately slow	2.48 to 2.83 in	7.4 to 8.4
BCg --	62 to 80 in		clay loam	moderately slow	2.54 to 2.90 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L73A--Blue Earth mucky silty clay loam, depressional, 0 to 1 percent slopes

Blue Earth, depressional

Extent: 70 to 90 percent of the unit

Landform(s): depressions on lake plains, depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: coprogenic material

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 10 in	silty clay loam	moderate	1.77 to 2.36 in	7.4 to 8.4
Cg -- 10 to 68 in	silty clay loam	moderate	10.42 to 13.89 in	7.4 to 8.4
2Cg -- 68 to 80 in	loam	moderate	1.83 to 2.32 in	7.4 to 8.4

L78A--Canisteo clay loam, 0 to 2 percent slopes

Canisteo

Extent: 55 to 85 percent of the unit

Landform(s): rims on depressions on moraines, flats on moraines

Slope gradient: 0 to 2 percent

Parent material: fine-loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 18 in	clay loam	moderate	3.26 to 3.98 in	7.4 to 8.4
Bkg -- 18 to 39 in	loam	moderate	2.50 to 3.76 in	7.4 to 8.4
Cg -- 39 to 80 in	loam	moderate	6.14 to 7.78 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L83A--Webster clay loam, 0 to 2 percent slopes

Webster

Extent: 50 to 85 percent of the unit

Landform(s): flats on moraines, swales on moraines

Slope gradient: 0 to 2 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 19 in	clay loam	moderate	3.59 to 3.97 in	6.6 to 7.3
Bg -- 19 to 26 in	clay loam	moderate	1.13 to 1.28 in	6.6 to 7.8
BCg,Cg -- 26 to 60 in	loam	moderate	5.08 to 6.43 in	7.4 to 8.4

L84A--Glencoe clay loam, depressional, 0 to 1 percent slopes

Glencoe, depressional

Extent: 75 to 100 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 24 in	clay loam	moderate	4.32 to 5.28 in	6.1 to 7.8
ABg -- 24 to 35 in	clay loam	moderate	1.98 to 2.43 in	6.1 to 7.8
Bg -- 35 to 48 in	loam	moderate	1.95 to 2.47 in	6.6 to 7.8
Cg -- 48 to 60 in	loam	moderate	1.77 to 2.24 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L96B--Estherville-Hawick complex, 2 to 6 percent slopes

Estherville

Extent: 40 to 65 percent of the unit

Landform(s): hills on outwash plains, hills on stream terraces

Slope gradient: 2 to 6 percent

Parent material: sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	sandy loam	moderately rapid	1.69 to 2.34 in	5.6 to 7.3
Bw1 -- 13 to 18 in	sandy loam	moderately rapid	0.61 to 0.85 in	5.6 to 7.3
2Bw2 -- 18 to 23 in	loamy coarse sand	rapid	0.10 to 0.20 in	5.6 to 7.3
2C -- 23 to 60 in	gravelly coarse sand	rapid	0.74 to 1.48 in	6.6 to 8.4

Hawick

Extent: 25 to 40 percent of the unit

Landform(s): hills on outwash plains, hills on stream terraces

Slope gradient: 2 to 6 percent

Parent material: sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 8

Wind erodibility index (WEI): 86

Kw factor (surface layer) .17

Land capability, nonirrigated 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	sandy loam	moderately rapid	0.92 to 1.06 in	6.1 to 7.8
Bw -- 7 to 11 in	gravelly loamy coarse sand	rapid	0.12 to 0.39 in	6.1 to 7.8
C -- 11 to 80 in	gravelly coarse sand	very rapid	1.38 to 4.13 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L129B--Terril loam, 2 to 6 percent slopes

Terril

Extent: 80 to 95 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: colluvium over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 --	0 to 27 in	loam		moderate	5.43 to 5.98 in	6.1 to 7.3
A2,BA --	27 to 40 in	loam		moderate	2.21 to 2.47 in	6.1 to 7.3
Bw --	40 to 63 in	loam		moderate	3.65 to 4.11 in	6.1 to 7.3
C --	63 to 80 in	loam		moderate	2.54 to 3.22 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L139A--Wadena loam, 0 to 2 percent slopes

Wadena

Extent: 80 to 90 percent of the unit

Landform(s): flats on outwash plains, rises on outwash plains,
flats on stream terraces, rises on stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	loam		moderate	2.60 to 2.86 in	6.1 to 7.3
Bw1 --	13 to 20 in	loam		moderate	0.99 to 1.35 in	5.6 to 7.3
Bw2 --	20 to 30 in	sandy loam		moderately rapid	1.28 to 1.77 in	5.6 to 7.3
2C --	30 to 60 in	gravelly coarse sand		rapid	0.60 to 1.20 in	6.6 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L139B--Wadena loam, 2 to 6 percent slopes

Wadena

Extent: 80 to 90 percent of the unit

Landform(s): hills on outwash plains, hills on terraces

Slope gradient: 2 to 6 percent

Parent material: loamy sediments over outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	loam		moderate	2.60 to 2.86 in	6.1 to 7.3
Bw1 --	13 to 20 in	loam		moderate	0.99 to 1.35 in	5.6 to 7.3
Bw2 --	20 to 30 in	sandy loam		moderately rapid	1.28 to 1.77 in	5.6 to 7.3
2C --	30 to 60 in	gravelly coarse sand		rapid	0.60 to 1.20 in	6.6 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L201A--Normania loam, 0 to 3 percent slopes

Normania

Extent: 75 to 90 percent of the unit

Landform(s): flats on moraines, rises on moraines

Slope gradient: 0 to 3 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 17 in	loam		moderate	3.39 to 3.72 in	6.1 to 7.3
Bw --	17 to 26 in	loam		moderate	1.36 to 1.72 in	6.6 to 7.3
Bk --	26 to 50 in	loam		moderate	3.60 to 4.56 in	7.4 to 8.4
Cg --	50 to 60 in	loam		moderate	1.48 to 1.87 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L211B--Amiret-Round Lake-Swanlake complex, 2 to 6 percent slopes

Amiret

Extent: 20 to 45 percent of the unit

Landform(s): moraines on hills

Slope gradient: 2 to 5 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 12 in	loam	moderate	2.01 to 2.60 in	6.1 to 7.3
Bw -- 12 to 20 in	loam	moderate	1.24 to 1.57 in	6.1 to 7.3
Bk -- 20 to 50 in	loam	moderate	4.49 to 5.69 in	7.4 to 8.4
BC -- 50 to 67 in	loam	moderate	2.54 to 3.22 in	7.4 to 8.4
C -- 67 to 80 in	loam	moderate	1.95 to 2.47 in	7.4 to 8.4

Round Lake

Extent: 20 to 40 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 6 percent

Parent material: outwash over till or lacustrine silty sediments

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 11 in	sandy loam	moderately rapid	1.43 to 1.98 in	5.6 to 7.3
Bw -- 11 to 14 in	sandy loam	moderately rapid	0.41 to 0.57 in	5.6 to 7.3
2Bw -- 14 to 26 in	loamy coarse sand	rapid	0.24 to 0.47 in	5.6 to 7.3
2Bk -- 26 to 35 in	gravelly coarse sand	rapid	0.18 to 0.36 in	6.6 to 8.4
2C -- 35 to 48 in	coarse sand	rapid	0.26 to 0.52 in	6.6 to 8.4
3Cg -- 48 to 80 in	silt loam	moderate	5.10 to 7.02 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L211B--Amiret-Round Lake-Swanlake complex, 2 to 6 percent slopes

Swanlake

Extent: 15 to 30 percent of the unit

Landform(s): hills on moraines

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam		moderate	1.81 to 2.17 in	7.4 to 8.4
Bk --	9 to 43 in	loam		moderate	5.08 to 6.43 in	7.4 to 8.4
C --	43 to 60 in	loam		moderate	2.54 to 3.22 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L212A--Burr-Nishna complex, 0 to 2 percent slopes, occasionally flooded

Burr, occasionally flooded

Extent: 50 to 80 percent of the unit

Landform(s): flats on lake plains

Slope gradient: 0 to 2 percent

Parent material: lacustrine sediments

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Apy -- 0 to 7 in	silty clay loam	moderate	1.28 to 1.56 in	7.4 to 8.4
A1ky,A2y -- 7 to 25 in	silty clay loam	moderately slow	2.54 to 3.08 in	7.4 to 8.4
A3,A4 -- 25 to 35 in	silty clay	moderately slow	1.38 to 1.67 in	7.4 to 8.4
Cg -- 35 to 60 in	stratified silt loam to clay	moderately slow	2.23 to 3.22 in	7.4 to 8.4

Nishna, occasionally flooded

Extent: 20 to 55 percent of the unit

Landform(s): flood plains, flats on lake plains

Slope gradient: 0 to 1 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4

Wind erodibility index (WEI): 86

Kw factor (surface layer) .37

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,Bg -- 0 to 48 in	silty clay	slow	6.72 to 8.17 in	7.4 to 8.4
Cg -- 48 to 60 in	silty clay loam	slow	1.89 to 2.24 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L213A--Calco silty clay loam, 0 to 2 percent slopes, frequently flooded

Calco, frequently flooded

Extent: 75 to 90 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 22 in		silty clay loam	moderate	4.63 to 5.07 in	7.4 to 8.4
Bg --	22 to 50 in		silty clay loam	moderate	5.87 to 6.43 in	7.4 to 8.4
Cg --	50 to 80 in		silty clay loam	moderate	5.39 to 5.98 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L214A--Calco-Du Page complex, 0 to 2 percent slopes, frequently flooded

Calco, frequently flooded

Extent: 40 to 70 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 14 in	silty clay loam	moderate	2.98 to 3.26 in	7.4 to 8.4
A2 -- 14 to 40 in	silty clay loam	moderate	5.46 to 5.98 in	7.4 to 8.4
Cg -- 40 to 60 in	silty clay loam	moderate	3.54 to 3.94 in	7.4 to 8.4

Du Page, frequently flooded

Extent: 40 to 60 percent of the unit

Landform(s): flats on flood plains, rises on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 5w

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A1,A2 -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1,C2 -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L215B--Dickman sandy loam, 2 to 6 percent slopes

Dickman

Extent: 80 to 90 percent of the unit

Landform(s): outwash plains on hills

Slope gradient: 2 to 6 percent

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 12 in		sandy loam	moderately rapid	1.54 to 1.77 in	6.1 to 6.5
Bw --	12 to 19 in		sandy loam	moderately rapid	0.85 to 0.99 in	6.1 to 7.3
2Bw,C --	19 to 80 in		coarse sand	rapid	3.05 to 4.27 in	6.1 to 7.8

Map Unit Description (MN)

Lincoln County, Minnesota

L216A--Du Page, rarely flooded-Wergeland complex, 0 to 3 percent slopes

Du Page, rarely flooded

Extent: 50 to 70 percent of the unit

Landform(s): flats on flood plains, rises on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1,A2 -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1,C2 -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4

Wergeland

Extent: 30 to 50 percent of the unit

Landform(s): flats on lake plains, rises on lake plains

Slope gradient: 0 to 3 percent

Parent material: loamy and silty sediments

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB -- 0 to 13 in	loam	moderate	2.60 to 2.86 in	7.4 to 8.4
Bk -- 13 to 25 in	loam	moderate	2.07 to 2.32 in	7.4 to 8.4
Cg -- 25 to 43 in	stratified loam to silty clay loam	moderate	3.01 to 3.37 in	7.4 to 8.4
Ab -- 43 to 58 in	loam	moderate	2.99 to 3.29 in	7.4 to 8.4
C -- 58 to 66 in	stratified loam to silty clay loam	moderate	1.41 to 1.57 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L217C2--Ves-Storden complex, 6 to 12 percent slopes, moderately eroded

Ves, moderately eroded

Extent: 35 to 75 percent of the unit

Landform(s): moraines on hills

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
Bw1,Bw2 --	8 to 22 in	loam		moderate	2.13 to 2.69 in	6.6 to 7.3
Bk --	22 to 33 in	loam		moderate	1.87 to 2.09 in	7.4 to 8.4
C --	33 to 60 in	loam		moderate	4.55 to 5.09 in	7.4 to 8.4

Storden, moderately eroded

Extent: 30 to 65 percent of the unit

Landform(s): moraines on hills

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	7.4 to 8.4
Bk --	7 to 55 in	loam		moderate	7.20 to 9.13 in	7.4 to 8.4
C --	55 to 80 in	loam		moderate	3.72 to 4.71 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L218B--Amiret loam, 2 to 5 percent slopes

Amiret

Extent: 75 to 90 percent of the unit

Landform(s): hills on moraines

Slope gradient: 2 to 5 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 12 in	loam		moderate	2.01 to 2.60 in	6.1 to 7.3
Bw --	12 to 20 in	loam		moderate	1.24 to 1.57 in	6.1 to 7.3
Bk --	20 to 50 in	loam		moderate	4.49 to 5.69 in	7.4 to 8.4
BC --	50 to 67 in	loam		moderate	2.54 to 3.22 in	7.4 to 8.4
C --	67 to 80 in	loam		moderate	1.95 to 2.47 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L220A--Calco silty clay loam, 0 to 2 percent slopes, occasionally flooded

Calco, occasionally flooded

Extent: 75 to 90 percent of the unit

Landform(s): flats on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1 -- 0 to 14 in	silty clay loam	moderate	2.98 to 3.26 in	7.4 to 8.4
A2 -- 14 to 40 in	silty clay loam	moderate	5.46 to 5.98 in	7.4 to 8.4
Cg -- 40 to 60 in	silty clay loam	moderate	3.54 to 3.94 in	7.4 to 8.4

L221A--Du Page loam, 0 to 2 percent slopes, occasionally flooded

Du Page, occasionally flooded

Extent: 75 to 90 percent of the unit

Landform(s): flats on flood plains, rises on flood plains

Slope gradient: 0 to 2 percent

Parent material: alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A1,A2 -- 0 to 36 in	loam	moderate	7.17 to 7.88 in	6.6 to 8.4
C1,C2 -- 36 to 60 in	loam	moderate	4.08 to 4.56 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L222C2--Ves-Storden-Pilot Grove complex, 6 to 12 percent slopes, moderately eroded

Ves, moderately eroded

Extent: 25 to 40 percent of the unit

Landform(s): moraines on hills

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	6.1 to 7.3
Bw --	8 to 22 in	loam		moderate	2.13 to 2.69 in	6.6 to 7.3
Bk --	22 to 33 in	loam		moderate	1.87 to 2.09 in	7.4 to 8.4
C --	33 to 60 in	loam		moderate	4.55 to 5.09 in	7.4 to 8.4

Storden, moderately eroded

Extent: 20 to 40 percent of the unit

Landform(s): moraines on hills

Slope gradient: 6 to 12 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	loam		moderate	1.42 to 1.56 in	7.4 to 8.4
Bk --	7 to 55 in	loam		moderate	7.20 to 9.13 in	7.4 to 8.4
C --	55 to 80 in	loam		moderate	3.72 to 4.71 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L222C2--Ves-Storden-Pilot Grove complex, 6 to 12 percent slopes, moderately eroded

Pilot Grove

Extent: 15 to 35 percent of the unit

Landform(s): hills on moraines

Slope gradient: 6 to 12 percent

Parent material: outwash over till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 4s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 9 in	sandy loam		moderately rapid	1.18 to 1.63 in	5.6 to 7.3
Bw --	9 to 17 in	sandy loam		moderately rapid	1.02 to 1.42 in	5.6 to 7.3
2BC --	17 to 21 in	loamy sand		rapid	0.08 to 0.16 in	5.6 to 7.3
2C --	21 to 58 in	gravelly coarse sand		rapid	0.74 to 1.48 in	6.6 to 8.4
3C --	58 to 80 in	loam		moderate	3.31 to 4.19 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

L223B--Amiret-Swanlake complex, 2 to 6 percent slopes

Amiret

Extent: 15 to 60 percent of the unit

Landform(s): moraines on hills

Slope gradient: 2 to 5 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 12 in	loam	moderate	2.01 to 2.60 in	6.1 to 7.3
Bw --	12 to 20 in	loam	moderate	1.24 to 1.57 in	6.1 to 7.3
Bk --	20 to 50 in	loam	moderate	4.49 to 5.69 in	7.4 to 8.4
BC --	50 to 67 in	loam	moderate	2.54 to 3.22 in	7.4 to 8.4
C --	67 to 80 in	loam	moderate	1.95 to 2.47 in	7.4 to 8.4

Swanlake

Extent: 15 to 40 percent of the unit

Landform(s): hills on moraines

Slope gradient: 3 to 6 percent

Parent material: till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam	moderate	1.81 to 2.17 in	7.4 to 8.4
Bk --	9 to 43 in	loam	moderate	5.08 to 6.43 in	7.4 to 8.4
C --	43 to 60 in	loam	moderate	2.54 to 3.22 in	7.4 to 8.4

Map Unit Description (MN)

Lincoln County, Minnesota

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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W--Water

Water

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.